

1 LINEARIZATION OF AN INCREMENTAL PRINTER BY MEASUREMENTS
2 REFERRED TO A MEDIA-INDEPENDENT SENSOR CALIBRATION

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5 ABSTRACT OF THE DISCLOSURE

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7 A printing system is linearized automatically using
8 measurements made with a simple optical sensor, such as a
9 line sensor, that is onboard the system. The printing
10 system itself is for forming images on plural printing
11 media. Because the optical sensor is not a colorimeter or
12 even a true densitometer, the sensor requires calibration,
13 preferably based upon measurements using real inks. In
14 the past it has been considered a requirement that such
15 calibration be performed separately using each of the
16 print media that was to be used for printing images. Lin-
17 earization according to the invention, however, refers to
18 a single calibration of the sensor, that calibration being
19 used in common for essentially all media — even though
20 the single calibration is performed with respect to exclu-
21 sively a single one of the plural media.